Oregon Grade 8

LineUp With MathTM Alignment to Mathematics Grade-Level Standards Adopted April 2002

Calculations and Estimations

Common Curriculum Goal (CCG): Numbers:

Understand numbers, ways of representing numbers, relationships among numbers, and number systems.

Grade-Level Standards	LineUp With Math [™] Activities
M.08.1.A.1(2) Apply proportions to solve problems.	Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.
M.08.1.A.1(4) Apply equivalent forms of rational numbers (including percents) to solve problems.	Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

Measurement

CCG: Direct & Indirect Measurement:

Apply appropriate techniques, tools, and formulas to determine measurements.

Grade-Level Standards	LineUp With Math [™] Activities
M.08.4.B.1(3) Solve problems involving rates and derived measurements for such attributes as speed, velocity, and density.	Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
	Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

Mathematical Problem Solving

CCG: Conceptual Understanding:

Select, apply, and translate among mathematical representations to solve problems.

Grade-Level Standards	LineUp With Math [™] Activities
M.08.6.A.1(1) Interpret the concepts of a problem- solving task and translate them into mathematics.	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

CCG: Processes and Strategies:

Apply and adapt a variety of appropriate strategies to solve problems

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Grade-Level Standards	LineUp With Math [™] Activities
M.08.6.B.1(1) Choose strategies that can work and then carry out the strategies chosen.	Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.

CCG: Communication:

Communicate mathematical thinking coherently and clearly. Use the language of mathematics to express mathematical ideas precisely.

Grade-Level Standards

LineUp With Math[™] Activities

M.08.6.D.1(1) Use pictures, symbols, and/or vocabulary to convey the path to the identified solution.

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

CCG: Accuracy:

Accurately solve problems that arise in mathematics and other contexts.

Grade-Level Standards

LineUp With Math[™] Activities

M.08.6.E.1(1) Accurately solve problems using mathematics.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.